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BENCH MARK: ALUMINUM DISK IN CONCRETE LABELED "U.S. DEPARTMENT OF INTERIOR 16SAN 1966" RESET IN 1984 APPROXIMATE STA. 188+00.00 OFFSET 40' R.

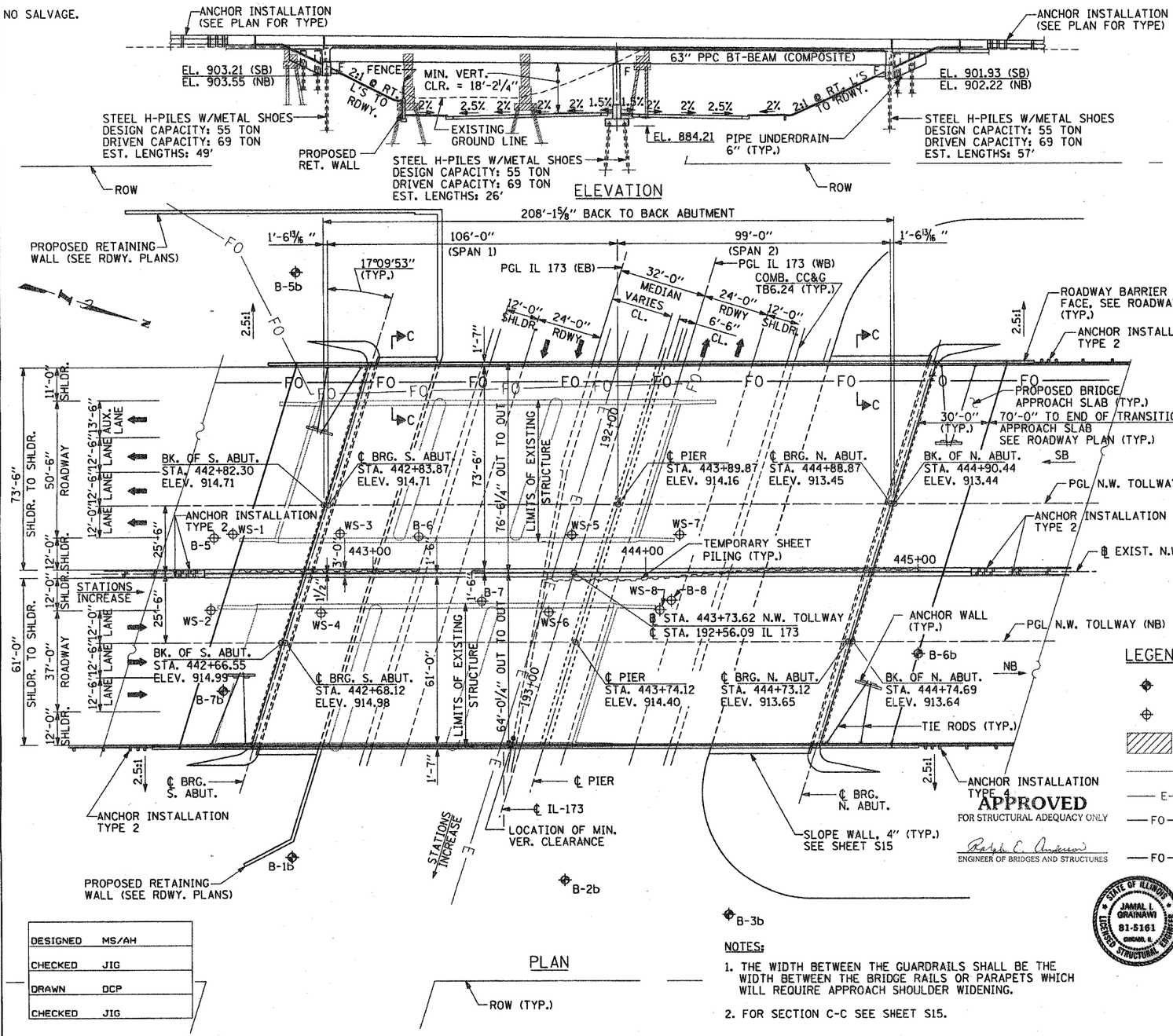
EXISTING STRUCTURES: S.N. 101-9905 (NB) & 101-9906 (SB) WERE BUILT AS N.W. TOLLWAY OVER IL 173 IN 1958. SUPERSTRUCTURE P.P.C. 36" I-BEAMS, SUBSTRUCTURE CONCRETE ABUT. ON CAST-IN-PLACE CONC. PILES, CONC. PIERS ON PRESTRESSED PRECAST CYLINDER PILES SHELLS. THREE 42'-9" SPANS. EXIST. MIN. CLEARANCE 14'-2". STRUCTURES WERE WIDENED IN 1989. TWO LANES OF TRAFFIC IN EACH DIRECTION WILL BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

NO SALVAGE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	180
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S01 OF SHEETS S47

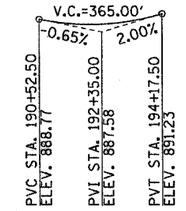


APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

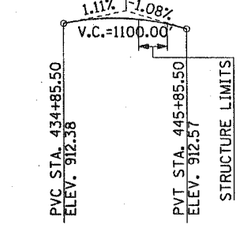
DESIGNED	MS/AH
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

NOTES:

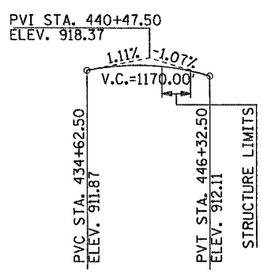
1. THE WIDTH BETWEEN THE GUARDRAILS SHALL BE THE WIDTH BETWEEN THE BRIDGE RAILS OR PARAPETS WHICH WILL REQUIRE APPROACH SHOULDER WIDENING.
2. FOR SECTION C-C SEE SHEET S15.



PROFILE GRADE
ALONG PG OF IL 173



PROFILE GRADE
ALONG PG OF N.W. TOLLWAY (NB)



PROFILE GRADE
ALONG PG OF N.W. TOLLWAY (SB)

HIGHWAY CLASSIFICATION

NORTHWEST TOLLWAY
FUNCTIONAL CLASS: INTERSTATE
ADT: 44,250 (BOTH DIR.) (2005)
42,400 (NB) (2025) 33,400 (SB) (2025)
ADTT: 10% DHV: 4,425 (BOTH DIR.)
DESIGN SPEED: 70 MPH
POSTED SPEED: 65 MPH

IL 173 (F.A.P. ROUTE 303)
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL
ADT: 10,200 (2005) 34,850 (2025)
ADTT: 4% DHV: 3,485
DESIGN/POSTED SPEED: 45 MPH

DESIGN SPECIFICATIONS

2002 AASHTO (17TH ED.)

LOADING HS20-44 & ALT.

ALLOW 25#/SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 PSI (CONCRETE STRUCTURE)
f'c = 4,000 PSI (HIGH PERFORMANCE CONCRETE)
fy = 60,000 PSI (REINF.)

PRECAST PRESTRESSED UNITS

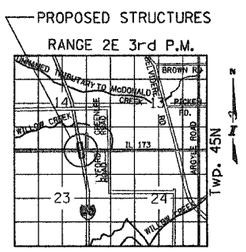
f'c = 6,000 PSI
fci = 5,000 PSI
f's = 270,000 PSI (½" Ø. LOW RELAXATION STRANDS)
fsi = 201,960 PSI (½" Ø. LOW RELAXATION STRANDS)

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC) = A
BEDROCK ACCELERATION COEFFICIENT (A) = 0.032G
SITE COEFFICIENT (S) = 1.0

LIVE LOAD DEFLECTION

MAXIMUM DEFLECTION DUE TO LIVE LOAD PLUS IMPACT SHALL NOT EXCEED THE FOLLOWING:
SPAN LENGTH/800



LOCATION SKETCH

LEGEND

- NEW SOIL BORING
- EXISTING SOIL BORING
- DENOTES REMOVAL
- EXISTING
- E — EXISTING ELECTRIC LINE
- FO — EXISTING FIBER OPTIC LINE TO BE RELOCATED
- FO — PROPOSED FIBER OPTIC LINE

STATE OF ILLINOIS
JAMAL I. GRAINAWI
81-5161
LICENSED STRUCTURAL ENGINEER
CHICAGO, IL

Signed Jamal Grainawi
Jamal I. Grainawi, S.E. Il. Lic. No. 081-005161
Expires 11-30-2006
Date 9-15-2005

PB PARSONS BRINCKERHOFF

GENERAL PLAN & ELEVATION
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

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